

## THE FRMAC MISSION ANALYSIS: WHAT IS IT, AND WHY IS IT USEFUL?

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In 2002, the Director of the U.S. Department of Energy's (DOE's) National Nuclear Security Administration, Division of Emergency Response, requested a team of DOE scientists, considered experts in the field of radiological consequence management, assemble and construct a mission analysis upon which the DOE could build its response program and plan for future requirements. The team developed five scenarios upon which to build the data quality objectives (DQOs) that they considered necessary to ensure a comprehensive consequence management response from the DOE perspective. The resulting document was called the Consequence Management Mission Analysis.

Based upon the positive reaction to this document and its obvious benefit to the Consequence Management mission, it was decided to expand the scope of the document to cover a mission analysis of the entire Federal Radiological Monitoring and Assessment Center (FRMAC) mission. The documentation team was expanded to include representatives from all signatories to the National Response Plan who have a role in responding to radiological emergencies. The scope of the FRMAC Mission Analysis includes all federal response resources which are activated to provide rapid support to affected state and local governments in the form of radiological monitoring and dose assessment activities at the incident site. An analysis of the necessary resources was performed to determine the required numbers and types of responders, in addition to the procedures and equipment necessary for performing the monitoring and dose assessment activities from the time the federal assets arrive at the site through the first week of the incident.

The five scenarios that were considered were:

- Nuclear Detonation
- Nuclear Reactor Incident or Event Involving Significant Release
- Alpha Radiological Dispersal Device or Failed Improvised Nuclear Device
- Beta-Gamma Radiological Dispersal Device
- Psychological Threat